

**Remarks**

In view of the foregoing amendments and following remarks responsive to the Office Action dated March 21, 2007, Applicant respectfully requests favorable reconsideration of this application.

Applicant acknowledges with thanks the Office's indication that claims 4, 5, 9, 10, 14-17, 21-24, 29-31, 36-37, 41-45, and 49-52 are merely objected to as depending from a rejected base claim, but would be allowable if amended to independent form including the limitations of the base claim and any intervening claims.

The Office has maintained the rejections from the previous Office Action, all of which are based at least partially on a primary combination of Hirano and Nam.

Applicant has herein amended the claims to effectively place this application in form for allowance in accordance with the allowable subject matter indicated in the Office Action. However, in order to avoid excessive fees for additional independent claims, Applicant has not amended the claims so as to now have a claim corresponding to every claim that was indicated as allowable in the Final Office Action. Specifically, despite the fact that claims 21-24, 36-37, and 41-45 were indicated as allowable, Applicant has not submitted amended claims corresponding to those claims.

Further, since many of the allowed claims include equations with underlining, amending the claims using underlining and strikethrough might become extremely confusing as to what is being deleted and added. Thus, instead, Applicant has simply cancelled the claims containing equations and rewritten them as new claims. The table

below explains the correspondence of the allowable claims indicated in the Final Office Action to the new claim set.

Old Allowable Claim	New Claim	Further Explanation
4	53	New claim 53 is a combination of old independent claim 1 and old dependent claim 4. It does not include the recitations from intervening claim 3, which clearly are not necessary with respect to the allowability of old claim 4.
5	54	New claim 54 is a combination of old independent claim 1 and old dependent claim 5. It does not include the recitations from intervening claim 3, which clearly are not necessary with respect to the allowability of old claim 5.
9	55	New claim 55 is a combination of old independent claim 6 and old dependent claim 9. It does not include the recitations from intervening claim 8, which clearly are not necessary with respect to the allowability of old claim 9.
10	56	New claim 56 is a combination of old independent claim 6 and old dependent claim 10. It does not include the recitations from intervening claim 8, which clearly are not necessary with respect to the allowability of old claim 10.
14	57	New claim 57 is a combination of old independent claim 11 and old dependent claim 14. It does not include the recitations from intervening claim 13, which clearly are not necessary with respect to the allowability of old claim 14.
15	58	New claim 58 is a combination of old independent claim 11 and old dependent claim 15. It does not include the recitations from intervening claim 13, which clearly are not necessary with respect to the allowability of old claim 15.
16	16	This was and is a dependent claim that originally depending from old claim 15 and has herein been amended to depend from its replacement claim, new claim 58.
17	17	This was and is a dependent claim that originally depending from old claim 16 and continues to depend from claim 16.
21-24	None	Applicant has chosen not to submit claims corresponding to these allowable claims.
29	59	New claim 59 is a combination of old independent claim 26 and old dependent claim 29. It does not include the recitations from intervening claim 28, which clearly are not necessary with respect to the allowability of old claim 29.
30	60	New claim 60 is a combination of old independent claim 26 and old dependent claim 30. It does not include the recitations from intervening claim 28, which clearly are not necessary with

		respect to the allowability of old claim 30.
31	31	This was and is a dependent claim that originally depending from old claim 30 and has herein been amended to depend from its replacement claim, new claim 60.
36-37	None	Applicant has chosen not to submit claims corresponding to these allowable claims.
41-45	None	Applicant has chosen not to submit claims corresponding to these allowable claims.
49	61	New claim 61 is a combination of old independent claim 46 and old dependent claim 49. It does not include the recitations from intervening claim 48, which clearly are not necessary with respect to the allowability of old claim 49.
50	62	New claim 62 is a combination of old independent claim 46 and old dependent claim 50. It does not include the recitations from intervening claim 48, which clearly are not necessary with respect to the allowability of old claim 50.
51	51	This was and is a dependent claim that originally depending from old claim 50 and has herein been amended to depend from its replacement claim, new claim 62.
52	52	This was and is a dependent claim that originally depending from old claim 51 and continues to depend from claim 51 as amended.

Applicants are not conceding in this application that the cancelled claims are not patentable over the art cited by the Examiner, as the present claim amendments and cancellations are only for facilitating expeditious prosecution of the allowable subject matter noted by the examiner. Applicants respectfully reserve the right to pursue these and other claims in one or more continuations and/or divisional patent applications.

In view of the foregoing amendments and remarks, Applicants respectfully submit that this application is now in condition for allowance. Applicants respectfully request the Examiner to issue a Notice of Allowance at the earliest possible date. The

Examiner is invited to contact Applicants' undersigned counsel by telephone call in order to further the prosecution of this case in any way.

Respectfully submitted,

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Date

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